

WEST Search History

DATE: Friday, July 28, 2006

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L73	L72 and ((thin or film\$4 or layer or surface or slice or plane) with (absorb\$4 or absorption and "take in" or "take on"))	1
<input type="checkbox"/>	L72	L71 and (((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4)))) with (((carbon or C) with (60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)) or ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky) or (fullerene)))	3
<input type="checkbox"/>	L71	((324/300-322.ccls.) or (600/407-435.ccls.) or (436/173.ccls.))	17569
<input type="checkbox"/>	L70	L69 and (surface with acoustic\$4 with (wave or wavelength or wave-length or "wave length"))	2
<input type="checkbox"/>	L69	L68 and ((electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or "EM") with (chang\$4 or difference or variation or deviat\$4 or shift\$4 or alteration) with (frequency) with (temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	4
<input type="checkbox"/>	L68	L67 and ((electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or "EM") with (chang\$4 or difference or variation or deviat\$4 or shift\$4 or alteration) with (frequency))	4
<input type="checkbox"/>	L67	L66 and (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or "EM")	6
<input type="checkbox"/>	L66	L65 and (frequency)	6
<input type="checkbox"/>	L65	L64 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (chang\$4 or difference or variation or deviat\$4 or shift\$4 or alteration))	17
<input type="checkbox"/>	L64	L63 and ((temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	34
<input type="checkbox"/>	L63	L62 and ((thin or film\$4 or layer or surface or slice or plane) with (absorb\$4 or absorption and "take in" or "take on"))	111
<input type="checkbox"/>	L62	((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4)))) with (((carbon or C) with (60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)) or ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky) or (fullerene)))	3184

<input type="checkbox"/>	L61	L60 and ((frequency) with (temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	3
<input type="checkbox"/>	L60	L5 and ((temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	4
<input type="checkbox"/>	L59	L58 and (SAW)	1
<input type="checkbox"/>	L58	L56 and ("c.sub.60")	26
<input type="checkbox"/>	L57	L56 and (kirimoto.in.)	0
<input type="checkbox"/>	L56	sun.in.	29391
<input type="checkbox"/>	L55	L52 not L54	68
<input type="checkbox"/>	L54	L53 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (chang\$4 or difference or variation or deviat\$4))	43
<input type="checkbox"/>	L53	L52 and (chang\$4 or difference or variation or deviat\$4)	97
<input type="checkbox"/>	L52	L51 and ((thin or film\$4 or layer or surface or slice or plane) with (absorb\$4 or absorption and "take in" or "take on"))	111
<input type="checkbox"/>	L51	L50 and (((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4)))) with (((carbon or C) with (60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)) or ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky) or (fullerene)))	3184
<input type="checkbox"/>	L50	L29 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4))))	77793
<input type="checkbox"/>	L49	L47 and L5	7
<input type="checkbox"/>	L48	L47 and (((surface) with (sound or acoustic\$4 or longitudinal\$2 or ultrasound or ultra-sound or ultrasonic\$4 or ultra-sonic\$4) with (wave)) or "SAW")	22
<input type="checkbox"/>	L47	L46 and (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4)))	213
<input type="checkbox"/>	L46	L4 and L29	213
<input type="checkbox"/>	L45	L40 and L10	4
<input type="checkbox"/>	L44	L40 and L11	3
<input type="checkbox"/>	L43	L41 and L11	3
<input type="checkbox"/>	L42	L41 and ((temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	43
<input type="checkbox"/>	L41	L40 and (temperature or heat\$4 or thermal\$2)	76
<input type="checkbox"/>	L40	L39 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (strength or intensity or magnitude or amplitude or strong\$3))	78
<input type="checkbox"/>	L39	L38 and (strength or intensity or magnitude or amplitude or strong\$3)	163
<input type="checkbox"/>	L38	L37 and (measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4)	168
<input type="checkbox"/>	L37	L36 and (speed or velocity or ((number or amount) with (rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4)))	173

<input type="checkbox"/>	L36	L35 and (absorb\$4 or absorption and "take in" or "take on")	203
<input type="checkbox"/>	L35	L34 and ((rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4 or number) and (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or wave or wavelength or wave-length or pressure or rf or frequency))	470
<input type="checkbox"/>	L34	L33 and ((thin or film\$4 or layer or surface or slice or plane) with (((carbon or C) with (60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)) or ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky) or (fullerene)))	518
<input type="checkbox"/>	L33	L32 and (thin or film\$4 or layer or surface or slice or plane)	1973
<input type="checkbox"/>	L32	L31 and (piezo-electric\$4 or piezoelectric\$4 or "LiNbO.sub.3" or quartz)	1993
<input type="checkbox"/>	L31	L30 and (((surface) with (sound or acoustic\$4 or longitudinal\$2 or ultrasound or ultra-sound or ultrasonic\$4 or ultra-sonic\$4) with (wave)) or "SAW")	11884
<input type="checkbox"/>	L30	L29 and (sound or acoustic\$4 or longitudinal\$2 or ultrasound or ultra-sound or ultrasonic\$4 or ultra-sonic\$4)	336781
<input type="checkbox"/>	L29	((carbon or C) with (60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)) or ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky) or (fullerene))	1434729
<input type="checkbox"/>	L28	L26 and ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96" or bucky)	48
<input type="checkbox"/>	L27	L26 and ("C.sub.60" or "C.sub.70" or "C.sub.76" or "C.sub.78" or "C.sub.82" or "C.sub.84" or "C.sub.90" or "C.sub.96")	42
<input type="checkbox"/>	L26	L25 and (carbon or 60 or 70 or 76 or 78 or 82 or 84 or 90 or 96)	55
<input type="checkbox"/>	L25	L24 and (absorb\$4 or absorption and "take in" or "take on")	57
<input type="checkbox"/>	L24	L23 and (thin or film\$4 or layer or surface or slice or plane)	100
<input type="checkbox"/>	L23	L22 and (temperature or heat\$4 or thermal\$2)	100
<input type="checkbox"/>	L22	L21 and (strength or intensity or magnitude or amplitude or strong\$3)	102
<input type="checkbox"/>	L21	L20 and (measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4)	110
<input type="checkbox"/>	L20	L19 and ((rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4) and (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency) with (fullerene))	112
<input type="checkbox"/>	L19	L2 and ((rotat\$4 or nutat\$4 or tip\$4 or flip\$4 or turn\$4) and (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency))	1083
<input type="checkbox"/>	L18	L17 and (fullerene)	1
<input type="checkbox"/>	L17	6830783	2
<input type="checkbox"/>	L16	L14 and ((absorb\$4 or absorption and "take in" or "take on") with (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency))	20
<input type="checkbox"/>	L15	L14 and ((temperature or heat\$4 or thermal\$2) with (strength or intensity or magnitude or amplitude or strong\$3))	12

<input type="checkbox"/>	L14	L13 and (thin or film\$4 or layer or surface or slice or plane)	23
<input type="checkbox"/>	L13	L12 and (absorb\$4 or absorption and "take in" or "take on")	23
<input type="checkbox"/>	L12	L11 and (temperature or heat\$4 or thermal\$2)	24
<input type="checkbox"/>	L11	L10 and ((fullerene) with (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency))	26
<input type="checkbox"/>	L10	L9 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (strength or intensity or magnitude or amplitude or strong\$3) with (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency))	106
<input type="checkbox"/>	L9	L8 and ((measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4) with (strength or intensity or magnitude or amplitude or strong\$3))	502
<input type="checkbox"/>	L8	L7 and (electromagnetic\$4 or electro-magnetic\$4 or radio or micro or infrared or sound or acoustic\$4 or longitudinal\$2 or wave or wavelength or wave-length or pressure or rf or frequency)	1255
<input type="checkbox"/>	L7	L6 and (strength or intensity or magnitude or amplitude or strong\$3)	1291
<input type="checkbox"/>	L6	L2 and (measur\$3 or measurement or calculat\$4 or find\$3 or determin\$4 or determination or ascertain\$4 or identif\$4)	1476
<input type="checkbox"/>	L5	L4 and (fullerene with ((rotat\$4 or nutat\$4 or tip\$4 or flip\$4) with (speed or velocity)))	7
<input type="checkbox"/>	L4	L3 and ((rotat\$4 or nutat\$4 or tip\$4 or flip\$4) with (speed or velocity))	213
<input type="checkbox"/>	L3	L2 and (rotat\$4 or nutat\$4 or tip\$4 or flip\$4)	829
<input type="checkbox"/>	L2	L1 and (speed or velocity)	1596
<input type="checkbox"/>	L1	fullerene	6588

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20060066305 A1

L60: Entry 1 of 4

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 6017630 A

L60: Entry 2 of 4

File: USPT

Jan 25, 2000

US-PAT-NO: 6017630

DOCUMENT-IDENTIFIER: US 6017630 A

**** See image for Certificate of Correction ****TITLE: Ultrafine particle and production method thereof, production method of ultrafine particle bonded body, and fullerene and production method thereof

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Shun-ichiro	Yokohama			JP
Xu; BingShe	Yokohama			JP

US-CL-CURRENT: 428/402, 219/121.68, 219/121.76, 219/121.82, 219/121.85, 385/122, 385/129, 428/408, 428/615

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Draw D
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☐ 3. Document ID: EP 1536223 A1

L60: Entry 3 of 4

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Draw D
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☐ 4. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L60: Entry 4 of 4

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

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TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
TEMPERATURE	3665040
TEMP	855302
TEMPS	79821
TEMPERATURES	1178876
STRENGTH	1922253
STRENGTHS	112644
INTENSITY	722422
INTENSITIES	105340
INTENSITYS	15
MAGNITUDE	676742
(L5 AND ((TEMPERATURE OR HEAT\$4 OR THERMAL\$2) WITH (STRENGTH OR INTENSITY OR MAGNITUDE OR AMPLITUDE OR STRONG\$3))) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	4

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20060066305 A1

L61: Entry 1 of 3

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Data	Reference	Sequences	Attachments	Claims	KWD	Drawings
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☐ 2. Document ID: EP 1536223 A1

L61: Entry 2 of 3

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Data	Reference			Claims	KWD	Drawings
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☐ 3. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L61: Entry 3 of 3

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes

when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FOIAC	Drawn D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
FREQUENCY	2056106
FREQUENCIES	485864
FREQUENCYS	73
TEMPERATURE	3665040
TEMP	855302
TEMPS	79821
TEMPERATURES	1178876
STRENGTH	1922253
STRENGTHS	112644
INTENSITY	722422
(L60 AND ((FREQUENCY) WITH (TEMPERATURE OR HEAT\$4 OR THERMAL\$2) WITH (STRENGTH OR INTENSITY OR MAGNITUDE OR AMPLITUDE OR STRONG\$3))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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Search Results - Record(s) 1 through 34 of 34 returned.

☐ 1. Document ID: US 20060115627 A1

L64: Entry 1 of 34

File: PGPB

Jun 1, 2006

PGPUB-DOCUMENT-NUMBER: 20060115627

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060115627 A1

TITLE: Extruded toner receiver layer for electrophotography

PUBLICATION-DATE: June 1, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dontula; Narasimharao	Rochester	NY	US
Heath; Terry A.	Caledonia	NY	US
Brickey; Michael R.	Webster	NY	US
Nair; Mridula	Penfield	NY	US

US-CL-CURRENT: 428/195.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Ds
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☐ 2. Document ID: US 20060072057 A1

L64: Entry 2 of 34

File: PGPB

Apr 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060072057

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060072057 A1

TITLE: Optical film and image viewing display

PUBLICATION-DATE: April 6, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yano; Shuuji	Osaka		JP
Yoda; Kenji	Osaka		JP
Nakata; Mie	Osaka		JP

US-CL-CURRENT: 349/117; 349/141

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20060066305 A1

L64: Entry 3 of 34

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20040190432 A1

L64: Entry 4 of 34

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040190432

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040190432 A1

TITLE: Optical recording medium and optical recording-reproducing method

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ichihara, Katsutaro	Yokohama-shi		JP
Ashida, Sumio	Tokyo		JP
Yusu, Keiichiro	Yokohama-shi		JP
Todori, Kenji	Yokohama-shi		JP
Tsukamoto, Takayuki	Kawasaki-shi		JP

US-CL-CURRENT: 369/275.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20040166269 A1

L64: Entry 5 of 34

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040166269

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040166269 A1

TITLE: Foam-molded article and manufacturing method thereof

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Imanari, Daisuke	Kanuma-shi		JP
Okuda, Masayasu	Kanuma-shi		JP
Kogure, Naohika	Kanuma-shi		JP
Naito, Masato	Kanuma-shi		JP

US-CL-CURRENT: 428/36.5; 264/51, 264/540

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw
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☐ 6. Document ID: US 20030202137 A1

L64: Entry 6 of 34

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030202137

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030202137 A1

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nakamura, Kenichi	Minami-ashigara-shi		JP
Amimori, Ichiro	Minami-ashigara-shi		JP
Ikeyama, Akihiro	Minami-ashigara-shi		JP
Watanabe, Jun	Minami-ashigara-shi		JP

US-CL-CURRENT: 349/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw
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☐ 7. Document ID: US 20020032250 A1

L64: Entry 7 of 34

File: PGPB

Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032250
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020032250 A1

TITLE: Photocuring resin compositions, photocuring sheets and molded article using the same, and processes of production thereof

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okazaki, Shougo	Otake-shi		JP
Kakuno, Yoko	Otake-shi		JP
Suemura, Kenji	Otake-shi		JP
Watanabe, Hiroyuki	Toyama-shi		JP

US-CL-CURRENT: 522/83; 264/446, 264/447, 264/478, 264/496, 428/345

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 8. Document ID: US 6917400 B2

L64: Entry 8 of 34

File: USPT

Jul 12, 2005

US-PAT-NO: 6917400
DOCUMENT-IDENTIFIER: US 6917400 B2

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

DATE-ISSUED: July 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Kenichi	Minami-ashigara			JP
Amimori; Ichiro	Minami-ashigara			JP
Ikeyama; Akihiro	Minami-ashigara			JP
Watanabe; Jun	Minabi-ashigara			JP

US-CL-CURRENT: 349/96; 349/117, 359/494

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 9. Document ID: US 6791649 B1

L64: Entry 9 of 34

File: USPT

Sep 14, 2004

US-PAT-NO: 6791649
DOCUMENT-IDENTIFIER: US 6791649 B1

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Kenichi	Minami-ashigara			JP
Amimori; Ichiro	Minami-ashigara			JP
Ikeyama; Akihiro	Minami-ashigara			JP
Watanabe; Jun	Minami-ashigara			JP

US-CL-CURRENT: 349/137

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Drawings
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☐ 10. Document ID: US 6646022 B2

L64: Entry 10 of 34

File: USPT

Nov 11, 2003

US-PAT-NO: 6646022

DOCUMENT-IDENTIFIER: US 6646022 B2

TITLE: Photocuring resin compositions, photocuring sheets and molded article using the same, and processes of production thereof

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okazaki; Shougo	Otake			JP
Kakuno; Yoko	Otake			JP
Suemura; Kenji	Otake			JP
Watanabe; Hiroyuki	Toyama			JP

US-CL-CURRENT: 522/153, 264/446, 264/447, 264/478, 264/494, 264/496, 428/500, 430/56, 430/60, 522/100, 522/104, 522/149, 522/150, 522/83

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Drawings
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☐ 11. Document ID: US 5798407 A

L64: Entry 11 of 34

File: USPT

Aug 25, 1998

US-PAT-NO: 5798407

DOCUMENT-IDENTIFIER: US 5798407 A

TITLE: Hydrophilic resin composition and process for producing the same

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yano; Kazunori	Yokkaichi			JP
Kaito; Hiroyoshi	Yokkaichi			JP
Wakayama; Akeharu	Yokkaichi			JP
Yada; Shuhei	Yokkaichi			JP

US-CL-CURRENT: 524/504; 524/513, 524/514, 524/517, 524/521, 524/522, 524/523

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 5594070 A

L64: Entry 12 of 34

File: USPT

Jan 14, 1997

US-PAT-NO: 5594070

DOCUMENT-IDENTIFIER: US 5594070 A

**** See image for Certificate of Correction ****

TITLE: Oriented polymeric microporous films

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacoby; Philip	Naperville	IL		
Bauer; Charles W.	Batavia	IL		
Clingman; Scott R.	Glen Ellyn	IL		
Tapp; William T.	Marietta	GA		

US-CL-CURRENT: 525/88; 525/240

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 5317035 A

L64: Entry 13 of 34

File: USPT

May 31, 1994

US-PAT-NO: 5317035

DOCUMENT-IDENTIFIER: US 5317035 A

**** See image for Certificate of Correction ****

TITLE: Oriented polymeric microporous films

DATE-ISSUED: May 31, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacoby; Philip	Naperville	IL		
Bauer; Charles W.	Batavia	IL		

Clingman; Scott R. Glen Ellyn IL
Tapp; William T. Marietta GA

US-CL-CURRENT: 521/143; 524/427, 525/191, 525/95

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw D
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☐ 14. Document ID: US 5176953 A

L64: Entry 14 of 34

File: USPT

Jan 5, 1993

US-PAT-NO: 5176953

DOCUMENT-IDENTIFIER: US 5176953 A

TITLE: Oriented polymeric microporous films

DATE-ISSUED: January 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacoby; Philip	Naperville	IL		
Bauer; Charles W.	Batavia	IL		
Clingman; Scott R.	Glen Ellyn	IL		
Tapp; Willilam T.	Marietta	GA		

US-CL-CURRENT: 428/315.5; 428/317.9, 521/128, 521/143, 521/84.1, 521/90

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw D
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☐ 15. Document ID: US 4964694 A

L64: Entry 15 of 34

File: USPT

Oct 23, 1990

US-PAT-NO: 4964694

DOCUMENT-IDENTIFIER: US 4964694 A

TITLE: Optical fiber and apparatus for producing same

DATE-ISSUED: October 23, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oohashi; Keiji	Sakura			JP
Suzuki; Hideo	Funabashi			JP
Araki; Shinji	Sakura			JP
Shimomichi; Tsuyoshi	Sakura			JP

US-CL-CURRENT: 385/128; 385/100, 385/141

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMO	Draw D
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☐ 16. Document ID: US 4410455 A

L64: Entry 16 of 34

File: USPT

Oct 18, 1983

US-PAT-NO: 4410455

DOCUMENT-IDENTIFIER: US 4410455 A

TITLE: Process for producing a hydrogenation catalyst

DATE-ISSUED: October 18, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lambert; Peter J.	Billingham			GB2

US-CL-CURRENT: 502/327; 585/260

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMO	Draw D
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☐ 17. Document ID: US 4329530 A

L64: Entry 17 of 34

File: USPT

May 11, 1982

US-PAT-NO: 4329530

DOCUMENT-IDENTIFIER: US 4329530 A

**** See image for Certificate of Correction ****

TITLE: Hydrogenation catalyst and process for the selective hydrogenation of highly unsaturated hydrocarbons

DATE-ISSUED: May 11, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Irvine; Elizabeth A.	Guisborough			GB2
Twigg; Martyn V.	Yarm			GB2

US-CL-CURRENT: 585/259; 502/328, 585/260, 585/261

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMO	Draw D
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☐ 18. Document ID: US 4228267 A

L64: Entry 18 of 34

File: USPT

Oct 14, 1980

US-PAT-NO: 4228267

DOCUMENT-IDENTIFIER: US 4228267 A

TITLE: Methyl methacrylate-based resin film and sheet

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Higashizume; Ryuichi	Suzuka			JP
Iyoku; Masahiko	Suzuka			JP

US-CL-CURRENT: 523/135; 264/291, 428/412, 428/522, 524/560, 526/328.5, 528/502B

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 19. Document ID: US 4151413 A

L64: Entry 19 of 34

File: USPT

Apr 24, 1979

US-PAT-NO: 4151413

DOCUMENT-IDENTIFIER: US 4151413 A

TITLE: Method of measuring horizontal fluid flow behind casing in subsurface formations with sequential logging for interfering isotope compensation and increased measurement accuracy

DATE-ISSUED: April 24, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Dan M.	Houston	TX		

US-CL-CURRENT: 250/269.8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 20. Document ID: JP 2004045238 A

L64: Entry 20 of 34

File: JPAB

Feb 12, 2004

PUB-NO: JP02004045238A

DOCUMENT-IDENTIFIER: JP 2004045238 A

TITLE: MOLECULE ROTATIONAL SPEED MEASURING METHOD OF FULLERENES

PUBN-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
SON, ISAMU	
MIYASATO, TATSURO	

INT-CL (IPC): G01 N 22/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 21. Document ID: EP 1536223 A1

L64: Entry 21 of 34

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 22. Document ID: WO 2004008126 A1

L64: Entry 22 of 34

File: EPAB

Jan 22, 2004

PUB-NO: WO2004008126A1

DOCUMENT-IDENTIFIER: WO 2004008126 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 23. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L64: Entry 23 of 34

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

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TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 24. Document ID: US 3759694 A

L64: Entry 24 of 34

File: USOC

Sep 18, 1973

US-PAT-NO: 3759694

DOCUMENT-IDENTIFIER: US 3759694 A

TITLE: METHOD FOR SINTERING TO BE SINTERED MATERIAL

DATE-ISSUED: September 18, 1973

INVENTOR-NAME: IKEDA T; KOBAYASHI A ; KOGA I

US-CL-CURRENT: 75/383, 432/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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☐ 25. Document ID: US 3697443 A

L64: Entry 25 of 34

File: USOC

Oct 10, 1972

US-PAT-NO: 3697443

DOCUMENT-IDENTIFIER: US 3697443 A

TITLE: ALUMINUM FLUORIDE FLUORINATION CATALYST

DATE-ISSUED: October 10, 1972

INVENTOR-NAME: MIZUSAWA SHIGERU; SHINODA KIYONORI ; WATANABE TADAYOSHI

US-CL-CURRENT: 502/231, 570/166

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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☐ 26. Document ID: US 3432381 A

L64: Entry 26 of 34

File: USOC

Mar 11, 1969

US-PAT-NO: 3432381

DOCUMENT-IDENTIFIER: US 3432381 A

TITLE: THERMAL INSULATION OF FIBROUS BRUCITE

DATE-ISSUED: March 11, 1969

INVENTOR-NAME: COLLINS JOHN OLIVER JR

US-CL-CURRENT: 162/152; 106/242, 162/155, 206/523

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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☐ 27. Document ID: US 3417064 A

L64: Entry 27 of 34

File: USOC

Dec 17, 1968

US-PAT-NO: 3417064

DOCUMENT-IDENTIFIER: US 3417064 A

TITLE: Polymers of 1,2-alkylene oxides

DATE-ISSUED: December 17, 1968

INVENTOR-NAME: BAILEY JR FREDERICK E

US-CL-CURRENT: 528/393; 523/447, 523/450, 523/456, 523/459, 523/461, 523/465,
524/925, 525/122, 525/403, 525/409

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MM	Draw
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☐ 28. Document ID: US 3412035 A

L64: Entry 28 of 34

File: USOC

Nov 19, 1968

US-PAT-NO: 3412035

DOCUMENT-IDENTIFIER: US 3412035 A

TITLE: METHOD FOR PRODUCING FINE PIGMENT PARTICLES IN A LIQUID VEHICLE

DATE-ISSUED: November 19, 1968

INVENTOR-NAME: KAZENAS ZENON; MCINTOSH MAURICE D ; SWITZER JOSEPH L

US-CL-CURRENT: 252/301.35, 524/594, 524/595, 524/597, 524/609, 524/610

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MM	Draw
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☐ 29. Document ID: US 3024092 A

L64: Entry 29 of 34

File: USOC

Mar 6, 1962

US-PAT-NO: 3024092

DOCUMENT-IDENTIFIER: US 3024092 A

TITLE: Modified carbon black and methods of preparing and using same

DATE-ISSUED: March 6, 1962

INVENTOR-NAME: GESSLER ALBERT M

US-CL-CURRENT: 423/445R; 106/472, 241/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MM	Draw
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☐ 30. Document ID: US 2872173 A

L64: Entry 30 of 34

File: USOC

Feb 3, 1959

US-PAT-NO: 2872173

DOCUMENT-IDENTIFIER: US 2872173 A

TITLE: Method and apparatus for heat treating materials in a continuous operating furnace

DATE-ISSUED: February 3, 1959

INVENTOR-NAME: THEO MUNKER

US-CL-CURRENT: 432/8; 219/388, 266/103, 266/87, 374/153, 432/45, 432/50

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 31. Document ID: US 2631921 A

L64: Entry 31 of 34

File: USOC

Mar 17, 1953

US-PAT-NO: 2631921

DOCUMENT-IDENTIFIER: US 2631921 A

TITLE: Contacting fluid and solids

DATE-ISSUED: March 17, 1953

INVENTOR-NAME: ODELL WILLIAM W

US-CL-CURRENT: 423/659; 208/149, 208/156, 208/213, 209/474, 210/918, 261/94,
261/DIG.72, 422/139, 423/DIG.16, 48/198.6, 48/203, 48/206, 48/DIG.4, 518/703,
518/717, 518/719

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 32. Document ID: US 2209963 A

L64: Entry 32 of 34

File: USOC

Aug 6, 1940

US-PAT-NO: 2209963

DOCUMENT-IDENTIFIER: US 2209963 A

TITLE: X-ray generating device

DATE-ISSUED: August 6, 1940

INVENTOR-NAME: DU MOND JESSE W M

US-CL-CURRENT: 378/125; 313/148, 313/30, 313/35, 313/44, 378/137, 378/141, 378/194,
378/203

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 33. Document ID: US 2009676 A

L64: Entry 33 of 34

File: USOC

Jul 30, 1935

US-PAT-NO: 2009676

DOCUMENT-IDENTIFIER: US 2009676 A

TITLE: Shock absorber for motor vehicles

DATE-ISSUED: July 30, 1935

INVENTOR-NAME: PENNINGTON GORDON R

US-CL-CURRENT: 188/278; 188/130, 188/284, 236/93R, 267/224

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 34. Document ID: US 2001733 A

L64: Entry 34 of 34

File: USOC

May 21, 1935

US-PAT-NO: 2001733

DOCUMENT-IDENTIFIER: US 2001733 A

TITLE: Sound deadening structure

DATE-ISSUED: May 21, 1935

INVENTOR-NAME: KELLOGG GEORGE D

US-CL-CURRENT: 52/144; 52/336, 52/404.3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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STRENGTHS	112644
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INTENSITYS	15
MAGNITUDE	676742
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☐ 1. Document ID: US 20060066305 A1

L65: Entry 1 of 17

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords	Drawings
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☐ 2. Document ID: US 20040190432 A1

L65: Entry 2 of 17

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040190432

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040190432 A1

TITLE: Optical recording medium and optical recording-reproducing method

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ichihara, Katsutaro	Yokohama-shi		JP
Ashida, Sumio	Tokyo		JP
Yusu, Keiichiro	Yokohama-shi		JP
Todori, Kenji	Yokohama-shi		JP
Tsukamoto, Takayuki	Kawasaki-shi		JP

US-CL-CURRENT: 369/275.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20040166269 A1

L65: Entry 3 of 17

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040166269

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040166269 A1

TITLE: Foam-molded article and manufacturing method thereof

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Imanari, Daisuke	Kanuma-shi		JP
Okuda, Masayasu	Kanuma-shi		JP
Kogure, Naohika	Kanuma-shi		JP
Naito, Masato	Kanuma-shi		JP

US-CL-CURRENT: 428/36.5; 264/51, 264/540

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20030202137 A1

L65: Entry 4 of 17

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030202137

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030202137 A1

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nakamura, Kenichi	Minami-ashigara-shi		JP
Amimori, Ichiro	Minami-ashigara-shi		JP
Ikeyama, Akihiro	Minami-ashigara-shi		JP
Watanabe, Jun	Minami-ashigara-shi		JP

US-CL-CURRENT: 349/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6917400 B2

L65: Entry 5 of 17

File: USPT

Jul 12, 2005

US-PAT-NO: 6917400

DOCUMENT-IDENTIFIER: US 6917400 B2

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

DATE-ISSUED: July 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Kenichi	Minami-ashigara			JP
Amimori; Ichiro	Minami-ashigara			JP
Ikeyama; Akihiro	Minami-ashigara			JP
Watanabe; Jun	Minabi-ashigara			JP

US-CL-CURRENT: 349/96; 349/117, 359/494

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 6. Document ID: US 6791649 B1

L65: Entry 6 of 17

File: USPT

Sep 14, 2004

US-PAT-NO: 6791649

DOCUMENT-IDENTIFIER: US 6791649 B1

TITLE: Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Kenichi	Minami-ashigara			JP
Amimori; Ichiro	Minami-ashigara			JP
Ikeyama; Akihiro	Minami-ashigara			JP
Watanabe; Jun	Minami-ashigara			JP

US-CL-CURRENT: 349/137

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 7. Document ID: US 4228267 A

L65: Entry 7 of 17

File: USPT

Oct 14, 1980

US-PAT-NO: 4228267

DOCUMENT-IDENTIFIER: US 4228267 A

TITLE: Methyl methacrylate-based resin film and sheet

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Higashizume; Ryuichi	Suzuka			JP
Iyoku; Masahiko	Suzuka			JP

US-CL-CURRENT: 523/135; 264/291, 428/412, 428/522, 524/560, 526/328.5, 528/502B

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 8. Document ID: US 4151413 A

L65: Entry 8 of 17

File: USPT

Apr 24, 1979

US-PAT-NO: 4151413

DOCUMENT-IDENTIFIER: US 4151413 A

TITLE: Method of measuring horizontal fluid flow behind casing in subsurface formations with sequential logging for interfering isotope compensation and increased measurement accuracy

DATE-ISSUED: April 24, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Dan M.	Houston	TX		

US-CL-CURRENT: 250/269.8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 9. Document ID: JP 2004045238 A

L65: Entry 9 of 17

File: JPAB

Feb 12, 2004

PUB-NO: JP02004045238A

DOCUMENT-IDENTIFIER: JP 2004045238 A

TITLE: MOLECULE ROTATIONAL SPEED MEASURING METHOD OF FULLERENES

PUBN-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
SON, ISAMU	

MIYASATO, TATSURO

INT-CL (IPC): G01 N 22/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 10. Document ID: EP 1536223 A1

L65: Entry 10 of 17

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 11. Document ID: WO 2004008126 A1

L65: Entry 11 of 17

File: EPAB

Jan 22, 2004

PUB-NO: WO2004008126A1

DOCUMENT-IDENTIFIER: WO 2004008126 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 12. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L65: Entry 12 of 17

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

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TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 3759694 A

L65: Entry 13 of 17

File: USOC

Sep 18, 1973

US-PAT-NO: 3759694

DOCUMENT-IDENTIFIER: US 3759694 A

TITLE: METHOD FOR SINTERING TO BE SINTERED MATERIAL

DATE-ISSUED: September 18, 1973

INVENTOR-NAME: IKEDA T; KOBAYASHI A ; KOGA I

US-CL-CURRENT: 75/383, 432/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWD	Draw D
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☐ 14. Document ID: US 3432381 A

L65: Entry 14 of 17

File: USOC

Mar 11, 1969

US-PAT-NO: 3432381

DOCUMENT-IDENTIFIER: US 3432381 A

TITLE: THERMAL INSULATION OF FIBROUS BRUCITE

DATE-ISSUED: March 11, 1969

INVENTOR-NAME: COLLINS JOHN OLIVER JR

US-CL-CURRENT: 162/152; 106/242, 162/155, 206/523

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWD	Draw D
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☐ 15. Document ID: US 2872173 A

L65: Entry 15 of 17

File: USOC

Feb 3, 1959

US-PAT-NO: 2872173

DOCUMENT-IDENTIFIER: US 2872173 A

TITLE: Method and apparatus for heat treating materials in a continuous operating furnace

DATE-ISSUED: February 3, 1959

INVENTOR-NAME: THEO MUNKER

US-CL-CURRENT: 432/8; 219/388, 266/103, 266/87, 374/153, 432/45, 432/50

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWD	Draw D
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☐ 16. Document ID: US 2631921 A

L65: Entry 16 of 17

File: USOC

Mar 17, 1953

US-PAT-NO: 2631921

DOCUMENT-IDENTIFIER: US 2631921 A

TITLE: Contacting fluid and solids

DATE-ISSUED: March 17, 1953

INVENTOR-NAME: ODELL WILLIAM W

US-CL-CURRENT: 423/659; 208/149, 208/156, 208/213, 209/474, 210/918, 261/94,
261/DIG.72, 422/139, 423/DIG.16, 48/198.6, 48/203, 48/206, 48/DIG.4, 518/703,
518/717, 518/719

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMR	Drawings
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☐ 17. Document ID: US 2009676 A

L65: Entry 17 of 17

File: USOC

Jul 30, 1935

US-PAT-NO: 2009676

DOCUMENT-IDENTIFIER: US 2009676 A

TITLE: Shock absorber for motor vehicles

DATE-ISSUED: July 30, 1935

INVENTOR-NAME: PENNINGTON GORDON R

US-CL-CURRENT: 188/278; 188/130, 188/284, 236/93R, 267/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMR	Drawings
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Term	Documents
MEASUREMENT	1139304
MEASUREMENTS	541409
DETERMINATION	755174
DETERMN	45370
DIFFERENCE	1922252
DIFFERENCES	609771
VARIATION	1144729
VARIATIONS	1719071
ALTERATION	165095
ALTERATIONS	240265
(L64 AND ((MEASUR\$3 OR MEASUREMENT OR CALCULAT\$4 OR FIND\$3 OR DETERMIN\$4 OR DETERMINATION OR ASCERTAIN\$4 OR IDENTIF\$4) WITH (CHANG\$4 OR	17

DIFFERENCE OR VARIATION OR DEVIAT\$4 OR SHIFT\$4 OR ALTERATION))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	
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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20060066305 A1

L67: Entry 1 of 6

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040190432 A1

L67: Entry 2 of 6

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040190432

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040190432 A1

TITLE: Optical recording medium and optical recording-reproducing method

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ichihara, Katsutaro	Yokohama-shi		JP
Ashida, Sumio	Tokyo		JP
Yusu, Keiichiro	Yokohama-shi		JP
Todori, Kenji	Yokohama-shi		JP
Tsukamoto, Takayuki	Kawasaki-shi		JP

US-CL-CURRENT: 369/275.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 3. Document ID: JP 2004045238 A

L67: Entry 3 of 6

File: JPAB

Feb 12, 2004

PUB-NO: JP02004045238A

DOCUMENT-IDENTIFIER: JP 2004045238 A

TITLE: MOLECULE ROTATIONAL SPEED MEASURING METHOD OF FULLERENES

PUBN-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME

COUNTRY

SON, ISAMU

MIYASATO, TATSURO

INT-CL (IPC): G01 N 22/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 4. Document ID: EP 1536223 A1

L67: Entry 4 of 6

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 5. Document ID: WO 2004008126 A1

L67: Entry 5 of 6

File: EPAB

Jan 22, 2004

PUB-NO: WO2004008126A1

DOCUMENT-IDENTIFIER: WO 2004008126 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 6. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L67: Entry 6 of 6

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

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TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw D
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Term	Documents
RADIO	712137
RADIOS	22618
MICRO	546106
MICROES	3
MICROS	2297
MICROE	183
INFRARED	412571
INFRAREDS	54
SOUND	582048
SOUNDS	98887
(L66 AND (ELECTROMAGNETIC\$4 OR ELECTRO-MAGNETIC\$4 OR RADIO OR MICRO OR INFRARED OR SOUND OR ACOUSTIC\$4 OR LONGITUDINAL\$2 OR WAVE OR WAVELENGTH OR WAVE-LENGTH OR PRESSURE OR RF OR "EM")) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20060066305 A1

L69: Entry 1 of 4

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawings
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☐ 2. Document ID: JP 2004045238 A

L69: Entry 2 of 4

File: JPAB

Feb 12, 2004

PUB-NO: JP02004045238A

DOCUMENT-IDENTIFIER: JP 2004045238 A

TITLE: MOLECULE ROTATIONAL SPEED MEASURING METHOD OF FULLERENES

PUBN-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
SON, ISAMU	
MIYASATO, TATSURO	

INT-CL (IPC): G01 N 22/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Drawings
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☐ 3. Document ID: EP 1536223 A1

L69: Entry 3 of 4

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 4. Document ID: US 20060066305 A1, WO 2004008126 A1, JP 2004045238 A, EP 1536223 A1

L69: Entry 4 of 4

File: DWPI

Mar 30, 2006

DERWENT-ACC-NO: 2004-123074

DERWENT-WEEK: 200624

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TITLE: Measurement of rotation speed of fullerene or fullerene derivatives by measuring strength variation of electromagnetic waves based on temperature changes when waves are absorbed on thin film

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
RADIO	712137
RADIOS	22618
MICRO	546106
MICROES	3
MICROS	2297
MICROE	183
INFRARED	412571
INFRAREDS	54
SOUND	582048
SOUNDS	98887
(L68 AND ((ELECTROMAGNETIC\$4 OR ELECTRO-MAGNETIC\$4 OR RADIO OR MICRO OR INFRARED OR SOUND OR ACOUSTIC\$4 OR LONGITUDINAL\$2 OR WAVE OR WAVELENGTH OR WAVE-LENGTH OR PRESSURE OR RF OR "EM") WITH (CHANG\$4 OR DIFFERENCE OR VARIATION OR DEVIAT\$4 OR SHIFT\$4 OR ALTERATION) WITH (FREQUENCY) WITH (TEMPERATURE OR HEAT\$4 OR	4

THERMAL\$2) WITH (STRENGTH OR INTENSITY OR MAGNITUDE OR AMPLITUDE OR STRONG\$3))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	
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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20060066305 A1

L70: Entry 1 of 2

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: EP 1536223 A1

L70: Entry 2 of 2

File: EPAB

Jun 1, 2005

PUB-NO: EP001536223A1

DOCUMENT-IDENTIFIER: EP 1536223 A1

TITLE: METHOD FOR MEASURING ROTATIONAL SPEED OF MOLECULE OF FULLERENES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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Term	Documents
SURFACE	8332634
SURFACES	2769976
WAVE	965741
WAVES	366359

WAVELENGTH	557391
WAVELENGTHS	207174
WAVE-LENGTH	8277
WAVE-LENGTHS	2451
"WAVE LENGTH"	0
ACOUSTIC\$4	0
ACOUSTIC	234470
(L69 AND (SURFACE WITH ACOUSTIC\$4 WITH (WAVE OR WAVELENGTH OR WAVE-LENGTH OR "WAVE LENGTH"))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20060066305 A1

L72: Entry 1 of 3

File: PGPB

Mar 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060066305

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060066305 A1

TITLE: Method for measuring rotational speed of molecule of fullerenes

PUBLICATION-DATE: March 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sun; Yong	Fukuoka		JP
Miyasato; Tatsuro	Fukuoka		JP

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 20040127789 A1

L72: Entry 2 of 3

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040127789

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040127789 A1

TITLE: Method and system for X-ray diagnosis of object in which X-ray contrast agent is injected

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ogawa, Kenichi	Otawara-Shi		JP

US-CL-CURRENT: 600/425

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 3. Document ID: US 3038115 A

L72: Entry 3 of 3

File: USOC

Jun 5, 1962

US-PAT-NO: 3038115

DOCUMENT-IDENTIFIER: US 3038115 A

TITLE: Orientation of nuclear magnetic resonance samples

DATE-ISSUED: June 5, 1962

INVENTOR-NAME: MUELLER WILLIAM F

US-CL-CURRENT: 324/321

Full	Title	Creation	Front	Review	Classification	Date	Reference	Claims	IPC	USOC
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Term	Documents
MEASUREMENT	1139304
MEASUREMENTS	541409
DETERMINATION	755174
DETERMN	45370
SPEED	2971021
SPEEDS	518309
VELOCITY	667689
VELOCITIES	116323
VELOCITYS	37
NUMBER	5501797
NUMBERS	1404092
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L72: Entry 2 of 3

File: PGPB

Jul 1, 2004

DOCUMENT-IDENTIFIER: US 20040127789 A1

TITLE: Method and system for X-ray diagnosis of object in which X-ray contrast agent is injected

Current US Classification, US Primary Class/Subclass:600/425Detail Description Paragraph:

[0103] The skeleton processor 70 performs the extraction of a skeleton, the production of a difference image, and the determination of a moving speed of the C-shaped arm 13, in sequence.

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L72: Entry 3 of 3

File: USOC

Jun 5, 1962

DOCUMENT-IDENTIFIER: US 3038115 A

TITLE: Orientation of nuclear magnetic resonance samples

OCR Scanned Text (4):

3,038,115 3 If the system is altered by inserting tube 11 into tube 10 thereby displacing a major portion of the water and forcing the water remaining to form a thin cylindrical shell, the resonance phenomenon is represented by the curve 31. This curve is characterized by two peaks 32 and 33 displaced on opposite sides of peak 30. Peaks 32 and 33 may be taken as representative of proton resonance in the high magnetic field as in zone 23, FIG. 2, and the resonance in the lowest magnetic field such as in regions 24, FIG. 2, respectively. Transitions between the high and low magnetic fields are represented by the region between peaks 32 and 33. It has further been found that materials in the annulus between tubes 10 and 11 having different susceptibilities cause differences in the spacing between peaks 32 and 33. Such differences are readily interpretable in terms of the magnetic susceptibility of the material in the annulus. It has further been found that if a known substance is placed in the annulus and from which there may be produced a resonance of the type shown on curve 31, FIG. 3, further steps may be followed to produce a single resonance peak extremely sharp in character which may then be employed as a standard or calibrating point in the resonance spectrum for unknown samples. This is particularly advantageous because the reference material and an unknown sample will be positioned as nearly as is possible in a common magnetic environment. The unique geometry of the system permits such orientation of the materials to be tested and also the simultaneous production of a calibration curve from a known substance and a resonance curve from an unknown substance. A known sample placed in the annulus and an unknown inside tube 11, rotated together at high speeds about the longitudinal axis of the tubes 10 and 11, produce desired observable resonance signals. The present invention relates to a system for so orienting a sample. Such a system is illustrated in FIG. 4, slightly enlarged FIG. 5 and in FIGS. 6, 7 and 8 where, for convenience, like parts will be given the same reference characters. Tubes 10 and 11, FIG. 4, or the single tube 10, FIG. 5, are mounted in an air turbine 34, FIG. 4, preferably formed entirely of non-magnetic plastic material. The turbine includes a cylindrical housing 35 having a threaded upper portion 36 on the interior of a doubly re-entrant opening or well which extends therethrough. A bearing support and guide member 37 may be secured inside housing 35 and extends below housing 35. A central channel through the member 37 accommodates the sample cells or tubes. A hollow rotor 38 is positioned inside a rotor chamber formed by the larger of the re-entrant openings in the housing 35. The rotor chamber has a planar bottom surface broken by the smaller diameter channel in axial alignment with the chamber. The rotor 38 preferably is provided with O-rings such as the O-ring 38a, FIG. 5, encircling the center bore frictionally to engage the surface of the tube 10 to form the unitary rotor structure shown in FIG. 7. One O-ring near the top of the rotor 38, and in instances a second O-ring near the bottom, have been employed to provide a readily engageable, resilient frictional coupling between tube 10 and rotor 38. A bulkhead 39 is positioned near the lower portion of the larger chamber of housing 35 having a shaft 40 which extends thereto and closes the smaller aperture in the lower portion of housing 35. An inlet port 41 is suitably

connected to a compressed air source and is adapted to deliver a driving fluid such as compressed air into the annular chamber below bulkhead 39. A plurality of small ports 42 oriented in a circular array as best seen in FIG. 6 provide a flow path from the inlet chamber of housing 35 to the rotor chamber thereof. As best seen in FIG. 8, the bottom surface of the rotor is milled or otherwise shaped to provide vanes or scoops 43 positioned in cooperative relationship with respect to the ports 42. Rotor 33 is thereby adapted to be actuated by flow of air through 4 ports 42 into the rotor chamber which is provided with an outlet port 44. In the absence of fluid flow, the bottom face of rotor 38 rests on the upper face of bulkhead 39, both surfaces being, substantially planar. Upon flow of fluid or air through inlet port 41, rotor 38 is raised slightly from contact with bulkhead 39 so that a relatively small passage exists between bulkhead 39 and the lower face of rotor 33. As the air escapes to the upper portion of the rotor chamber and out through outlet port 44, reaction with the vanes 43 produces rotation of the rotor 38 and tube 10 and also causes a slight elevation thereof, the amount of which will be dependent upon the magnitude of air flow. Thus there is provided an air cushion or bearing 15 for rotor 38. Though not readily shown in the drawings, the ports 42 preferably are not perpendicular to the face of bulkhead 39 but are slanted or directed toward the actuating surfaces of vanes 43. The system is maintained in axial alignment with the housing 35 by bearing surfaces, preferably contact bearings of small surface area, provided to contact the surface of tube 10. More particularly, the lower end of the guide member 37 is provided with an inwardly directed annular portion 37a which provides a bearing at the lower section of tube 25 10. A cap 45 threadably engages the upper portion 36 of the housing 35 to form a closure member therefor. A closure member such as the cap 45 is provided with a bearing element 46 which is provided with an internal annular ring 47 which serves as a bearing for the upper end of tube 10. As shown in FIG. 4, the air turbine 35 is mounted with test tubes 10 and 11 extending down into the test unit 50. The test unit 50 includes a sample well formed of a cylinder 51 in which test tubes 10 and 11 are centered. The detecting coil 17 is secured to the inner surface of cylinder 51 and is located substantially symmetrical to the axis of the R.F. field coil 16. Coil 16 is split as shown in FIG. 4 and mounted on suitable non-magnetic cylindrical extensions 55 and 56 which are secured to the ends of the test unit 50. The axes of coils 16 and 17 are mutually perpendicular to each other and to the polarizing magnetic field which extends between the magnetic poles 12 and 13, only magnetic pole 12 being shown (in part) in FIG. 4. The utility of the system may best be understood by now considering FIG. 3. Curve 31 of graph A is representative of the nuclear resonance spectrum of water in the annulus between tubes 10 and 11 without rotation. Graphs B, C, D, E and F represent transitions in curve 31 as a function of the rotational speed of the tubes 10 and 11. The shifted broadened resonance, of curve 31 is fairly symmetrical with respect to the bulk water resonance of curve 30, graph A. However, the separation of peaks 31 and 32 relative to the peak of curve 30 may readily be measured as the distance along the magnetic field scale H. With increasing speeds of revolution of the tubes 10 and 11 with water in the annulus only, the effects shown in graphs B-F are observed which readily show in apparent breaking up of the pattern of graph A. This effect is apparent in graph B. As speed further increases, a pattern appears with fairly predominant peaks 60 and 61, graph C, which are symmetrical with respect to a line 63 which is equally spaced from peaks 32 and 33. Secondary peaks 64 and 65 may also be seen. Thus the peaks 32 and 33 each break up into separate resonances. However as speed further is increased, the resonances shown in graph C break up to emphasize a single resonance peak 66 symmetrical to line 63. As shown in graph D, peak 66 becomes pronounced with decreased amplitude 70 on the flanks thereof. Graph E shows the peak 66 fairly well developed and graph F shows a final development of a sharp spike, which may be considered to be a Bessel function distribution of the resonance of nuclei in the annulus between test tubes 10 and 11. By producing the sharp line resonance, an accurate

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